

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference CFQ17772WO	FOR FURTHER ACTION see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. PCT/JP 03/15948	International filing date (day/month/year) 12/12/2003	(Earliest) Priority Date (day/month/year) 13/12/2002
Applicant CANON KABUSHIKI KAISHA		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 4 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing :

☐ contained in the international application in written form.

☐ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. ☐ Certain claims were found unsearchable (See Box I).

3. ☐ Unity of invention is lacking (see Box II).

4. With regard to the title,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the abstract,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the drawings to be published with the abstract is Figure No.

☐ as suggested by the applicant.

☐ because the applicant failed to suggest a figure.

☒ because this figure better characterizes the invention.

2a=2c _____

☐ None of the figures.

INTERNATIONAL SEARCH REPORT

International Application No

PCT/JP 03/15948

A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 B82B1/00 B82B3/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B82B H01L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 231 744 B1 (YING JACKIE Y ET AL) 15 May 2001 (2001-05-15)	23,24
Y	column 8, line 29 - column 9, line 37; figure 1	1-6,10, 11
X	PAULOSE MAGGIE ET AL: "Self-assembled fabrication of aluminum–silicon nanowire networks" APPLIED PHYSICS LETTERS, AMERICAN INSTITUTE OF PHYSICS. NEW YORK, US, vol. 81, no. 1, 1 July 2002 (2002-07-01), pages 153-155, XP012031764 ISSN: 0003-6951	23,24
Y	the whole document	1-6,10, 11

 -/--

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

10 March 2005

Date of mailing of the international search report

18/03/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
 NL - 2280 HV Rijswijk
 Tel. (+31-70) 340-2040, Tx. 31 651 epo.nl,
 Fax: (+31-70) 340-3016

Authorized officer

Dauw, X

INTERNATIONAL SEARCH REPORT

International Application No

PCT/JP 03/15948

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 951 047 A (CANON KABUSHIKI KAISHA) 20 October 1999 (1999-10-20) figures 1,12-19 -----	23,24
A	WO 02/11216 A (INFINEON TECHNOLOGIES AG; KRETZ, JOHANNES; LUYKEN, RICHARD, JOHANNES;) 7 February 2002 (2002-02-07) pages 8-10; figures 1A,B,C -----	1-24
A	US 2002/130311 A1 (LIEBER CHARLES M ET AL) 19 September 2002 (2002-09-19) figures 3,4,6,12,19 -----	1-24
A	US 2002/175408 A1 (MAJUMDAR ARUN ET AL) 28 November 2002 (2002-11-28) figures 12,24,25,31 -----	1-24
A	US 2002/114949 A1 (BOWER CHRISTOPHER A ET AL) 22 August 2002 (2002-08-22) figures 2a-2e -----	1-24
A	US 6 401 526 B1 (DAI HONGJIE ET AL) 11 June 2002 (2002-06-11) figures 2a-2d -----	1-24
A	HULTEEN J C ET AL: "A GENERAL TEMPLATE-BASED METHOD FOR THE PREPARATION OF NANOMATERIALS" JOURNAL OF MATERIALS CHEMISTRY, THE ROYAL SOCIETY OF CHEMISTRY, CAMBRIDGE, GB, vol. 7, no. 7, July 1997 (1997-07), pages 1075-1087, XP000703793 ISSN: 0959-9428 figures 8,9,11,12 -----	1-24

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/JP 03/15948

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 6231744 B1	15-05-2001	US 6359288 B1 WO 9848456 A1	19-03-2002 29-10-1998
EP 0951047 A	20-10-1999	JP 2000031462 A EP 1378486 A1 EP 1378487 A1 EP 0951047 A2 US 6278231 B1 US 2001028872 A1	28-01-2000 07-01-2004 07-01-2004 20-10-1999 21-08-2001 11-10-2001
WO 0211216 A	07-02-2002	DE 10036897 C1 WO 0211216 A1 EP 1305834 A1 US 2003132461 A1	03-01-2002 07-02-2002 02-05-2003 17-07-2003
US 2002130311 A1	19-09-2002	CA 2447728 A1 EP 1436841 A1 JP 2004535066 T WO 03005450 A2 US 2003089899 A1 AU 8664901 A CA 2417992 A1 EP 1314189 A2 JP 2004507104 T WO 0217362 A2 AU 2904602 A CA 2430888 A1 EP 1342075 A2 JP 2004515782 T WO 0248701 A2 US 2002117659 A1	16-01-2003 14-07-2004 18-11-2004 16-01-2003 15-05-2003 04-03-2002 28-02-2002 28-05-2003 04-03-2004 28-02-2002 24-06-2002 20-06-2002 10-09-2003 27-05-2004 20-06-2002 29-08-2002
US 2002175408 A1	28-11-2002	CA 2442985 A1 EP 1374309 A1 JP 2004532133 T TW 554388 B WO 02080280 A1 US 2002172820 A1	10-10-2002 02-01-2004 21-10-2004 21-09-2003 10-10-2002 21-11-2002
US 2002114949 A1	22-08-2002	AU 2308501 A CA 2331278 A1 EP 1129990 A1 JP 2001262343 A	30-08-2001 25-08-2001 05-09-2001 26-09-2001
US 6401526 B1	11-06-2002	US 2002178846 A1	05-12-2002